Contents

Volume 52, Number 1, January 2000

Review

1 Circulating IGF-I and its protective role in the pathogenesis of diabetic angiopathy?: J.A.M.J.L. JANSSEN and S.W.J. LAMBERTS (SEE COMMENTARY PAGE 11)

Commentary

11 Growth hormone, IGF-I and diabetic angiopathy revisited: N. MØLLER and H. ØRSKOV (SEE PAGE 1)

13 Deflazacort: towards selective glucocorticoid receptor modulation?: B.R. WALKER

Original papers

17 The effects of growth hormone replacement therapy on overnight metabolic fuels in hypopituitary patients: E. KOUSTA, A. CHRISOULIDOU, N.J. LAWRENCE, V. ANYAOKU, K.A.S. AL-SHOUMER and D.G. JOHNSTON

25 Circadian variation in serum free and total insulin-like growth factor (IGF)-I and IGF-II in untreated and treated acromegaly and growth hormone deficiency: C. SKJÆRBÆK, J. FRYSTYK, A. KAAL, T. LAURSEN, J MØLLER, J. WEEKES, J.O.L. JØRGENSEN, J.S. CHRISTIANSEN and H. ØRSKOV

35 Absence of somatostatin receptor type 2A mutations and gip oncogene in pituitary somatotroph adenomas: S.T. PETERSENN, M. HEYENS, D.K. LÜDECKE, F.U. BEIL and H.M. SCHULTE

43 CSF rhinorrhoea following treatment with dopamine agonists for massive invasive prolactinomas: K.S. LEONG, P.M. FOY, A.C. SWIFT, S.L. ATKIN, D.R. HADDEN and I.A. MACFARLANE

51 Distrupted cortisolACTH relationships in elderly women given corticotrophin-releasing hormone two weeks after proximal femur fracture: I.P.M. O'CONNELL, R.N. BARTON, M.A. HORAN and P.F. MAYCOCK

61 Sexual dimorphism of cortisol metabolism is maintained in elderly subjects and is not oestrogen dependant: A. TOOGOOD, N.F. TAYLOR, S.M. SHALET and J.P. MONSON

67 Mutations in the type II 3ß-hydroxysteroid dehydrogenase (HSD3B2) gene can cause premature pubarche in girls: S. MARUI, M. CASTRO, A.C. LATRONICO, L.L.K. ELIAS, I.J.P. ARNHOLD, A.C. MOREIRA and B.B. MENDONCA

77 Endogenous inhibitors of 11b-hydroxysteroid dehydroganse type 1 do not explain abnormal cortisol metabolism in polycystic ovary syndrome: B.R. WALKER, A. RODIN, N.F. TAYLOR and R.N. CLAYTON

81 The prevalence of polycystic ovaries in women with type 2 diabetes mellitus: J.J. CONN, H.S. JACOBS and G.S. CONWAY

87 Suppression of endogenous insulin secretion by exogenous insulin in patients with insulinoma: C.H. KIM, J.Y. PARK, Y.K. SHONG, S.K. HONG, G.S. KIM and K.U. LEE

93 The insulin resistance syndrome and the binding capacity of cortisol binding globulin (CBG) in men and women: J.M. FERNÁNDEZ-REAL, M. GRASA, R. CASAMITJANA and W. RICART

101 Leptin concentrations in Prader-Willi syndrome before and after growth hormone replacement: S.E. MYERS, A. DAVIS, B.Y. WHITMAN, J.V. SANTIAGO and M. LANDT

107 The innate immune response and type 2 diabetes: evidence that leptin is associated with a stress-related (acute-phase) reaction: J.C. PICKUP, G.D. CHUSNEY and M.B. MATTOCK

113 Weight gain reverses bone turnover and restores circadian variation of bone resorption in anorexic patients: A. CAILLOT-AUGUSSEAU, M.H. LAFAGE-PROUST, P. MARGAILLAN, N. VERGELY, S. FAURE, S. PAILLET, F. LANG, C. ALEXANDRE and B. ESTOUR

Case report

123 Adrenal insufficiency as the first clinical manifestation of the primary antiphospholipid antibody syndrome: M.A. SATTA, S.M. CORSELLO, S. DELLA CASA, C.A. ROTA, B. PIROZZI, S. COLASANTI, G. CINA, A.B. GROSSMAN and A. BARBARINO

Author's Declaration

Volume 52, Number 2, February 2000

Review

127 Screening children at risk of developing inherited endocrine neoplasia syndromes: L. B. JOHNSTON, S. L. CHEW, P. J. TRAINER, R. REZNEK, A. B. GROSSMAN, G. M. BESSER, J. P. MONSON and M. O. SAVAGE

Commentary

137 New causes of Cushing's syndrome: abnormal adrenal regulation of cortisol production: A. B. ATKINSON (SEE PAGE 235)

139 CTLA4 variants in type 1 diabetes: some stirrups serve better backing endocrine autoimmunity: K. BADENHOOP (SEE PAGE 153)

141 Application of a disease-specific, quality-of-life measure (QoL-AGHDA) in growth hormone-deficient adults and a random population sample in Sweden: validation of the measure by Rasch analysis: J.P. MONSON (SEE PAGE 143)

Original papers

143 Application of a disease-specific, quality-of- life measure (QoL-AGHDA) in growth hormone-deficient adults and a random population sample in Sweden: validation of the measure by Rasch analysis: L. WIRéN, D. WHALLEY, S. MCKENNA and L. WILHELMSEN (SEE COMMENTARY PAGE 141)

153 Association of CTLA4 gene AG polymorphism with type 1 diabetes in Chinese children: Y-J. LEE, F-Y. HUANG, F-S. LO, W-C. WANG, C-H. HSU, H.A. KAO, T-Y. YANG and J-G. CHANG (SEE COMMENTARY PAGE 139)

159 Insulin sensitivity and secretion influence the relationship between growth hormone-binding-protein and leptin: J.-M. FERNANDEZ-REAL, M.L. GRANADA, A. RUZAFA, R. CASAMITJANA and W. RICART

165 Serum levels of growth hormone binding protein in children with normal and precocious puberty: relation to age, gender, body composition and gonadal steroids: A. JUUL, S. FISKER, T. SCHEIKE, T. HERTEL, J. MÜLLER, H. ORSKOV and N. E. SKAKKEBÆK

173 Administration of recombinant human growth hormone on alternate days is sufficient to increase whole body protein synthesis and lipolysis in growth hormone deficient adults: P. LUCIDI, S. LAURETI, S. SANTONI, M. LAUTERI, N. BUSCIANTELLA-RICCI, G. ANGELETTI, F. SANTEUSANIO and P. DE FEO

181 Insulin-like growth factor I administration induces fluid and sodium retention in healthy adults: possible involvement of renin and atrial natriuretic factor: J. MØLLER, J. O. L. JØRGENSEN, J. MARQVERSEN, E. FRANDSEN and J. S. CHRISTIANSEN

187 Association of elevated insulin-like growth factor binding protein-1 with insulin resistance in hyperthyroidism: R. C. JENKINS, R. VALCAVI, M. ZINI, A. FRASOLDATI, S. R. HELLER, C. CAMACHO-HUBNER, J. M. GIBSON, M. WESTWOOD and R. J. M. ROSS

197 Testicular dysfunction in men with primary hypothyroidism; reversal of hypogonadotrophic hypogonadism with replacement thyroxine: P. DONNELLY and C. WHITE

203 Parathyroidectomy for primary hyperparathyroidism induces positive uncoupling and increases bone mineral density in cancellous bones: Y. ABE, E. EJIMA, K FUJIYAMA, T. KIRIYAMA, A. IDE, N SERA, T. TOMINAGA, K ASHIZAWA, N. YOKOYAMA and K. EGUCHI

211 Consequences of vitamin D receptor gene polymorphisms for growth inhibition of cultured human peripheral blood mononuclear cells by 1,25-dihydroxyvitamin D_3: E.M. COLIN, A.E.A.M. WEEL, A.G. UITTERLINDEN, C.J. BUURMAN, J.C. BIRKENHÄGER, H.A.P. POLS and J.P.T.M. VAN LEEUWEN

217 Nasogastric feeding enhances nutritional status in paediatric liver disease but does not alter circulating levels of IGF-1 and IGF binding proteins: R. I. G. HOLT, J. P. MIELL, J. S. JONES, G. MIELI-VERGANI and A. J. BAKER

225 Raloxifene reduces atherosclerosis: studies of optimized raloxifene doses in ovariectomized, cholesterol-fed rabbits: N. H. BJARNASON, J. HAARBO, I. BYRJALSEN, R. F. KAUFFMAN, M. P. KNADLER and C. CHRISTIANSEN

Case report

235 GIP-dependent adrenal Cushing's syndrome with incomplete suppression of ACTH: R. J. M. CROUGHS, P. M. J. ZELISSEN, T. J. M. V. VAN VROONHOVEN, L. J. HOFLAND, N. N'DIAYE, A. LACROIX and W. W. DE HERDER (SEE COMMENTARY PAGE 137)

241 **Letters to the Editors**

251 **Book reviews**

252 **Notices**

Author's Declaration

Volume 52, Number 3, March 2000

Review

253 Non-surgical management of erectile dysfunction: A. LEVY, T. CROWLEY and C. GINGELL

Original papers

261 Clinical features and pathogenesis of thyrotoxicosis in adult Melanesians in Papua New Guinea: V. P. MICHELANGELI, G. PAWAPE, A. SINHA, K. ONGUGU, D. LINGE, S. H. SENGUPTA B. B. TAIT and P. G. COLMAN

267 Association of thyrotropin receptor antibodies with the clinical features of Graves' ophthalmopathy: M. N. GERDING, J. W. C. VAN DER MEER, M. BROENINK, O. BAKKER, W. M. WIERSINGA and M. F. PRUMMEL

273 Determinants of thyroid volume in healthy French adults

participating in the SU.VI.MAX cohort: X. BARRÈRE, P. VALEIX, P. PREZIOSI, M. BENSIMON, B. PELLETIER, P. GALAN and S. HERCBERG

279 A novel mutation in the pendrin gene associated with Pendred's syndrome: F. BOGAZZI, F. RAGGI, F. ULTIMIERI, A. CAMPOMORI, C. COSCI, S. BERRETTINI, E. NERI, R. LA ROCCA, G. RONCA, E. MARTINO and L. BARTALENA

287 Reduction of the pituitary GH releasable pool in short children with GH neurosecretory dysfunction: G. AIMARETTI, S. BELLONE, J. BELLONE, P. CHIABOTTO, C. BAFFONI, G. CORNELI, C. ORIGLIA, C. DE SANCTIS, F. CAMANNI and E. GHIGO

295 A therapeutic trial of growth hormone in hypopituitary adults and its influence upon continued prescription by general practitioners: J. S. DAVIES, K. OBUOBIE, J. SMITH, D. A. REES, A. FURLONG, N. DAVIES, L. M. EVANS and M. F. SCANLON

305 Effects of growth hormone administration on protein dynamics and substrate metabolism during 4 weeks of dietary restriction in obese women: H. NØRRELUND, J. BØRGLUM, J. O. L. JØRGENSEN, B. RICHELSEN, N. MØLLER, K. S. NAIR and J. S. CHRISTIANSEN

313 Insulin-like growth factor (IGF)-1 and IGF binding protein-1 concentrations in serum of normal subjects after alcohol ingestion: evidence for decreased IGF-1 bioavailability: S. ROJDMARK, Y. RYDVALD, A. AQUILONIUS and K. BRISMAR

319 Prolactinomas in adolescents: persistent bone loss after 2 years of prolactin normalization: A. COLAO, C. DI SOMMA, S. LOCHE, A. DI SARNO, M. KLAIN, R. PIVONELLO, M. PIETROSANTE, M. SALVATORE and G. LOMBARDI

329 The effects of age and gender on parathyyroid hormone dynamics: S. T. HADEN, E. M. BROWN, S. HURWITZ, J. SCOTT and G. EL-HAJJ FULEIHAN

339 Calcium-sensing receptor expression and signalling in human parathyroid adenomas and primary hyperplasia: S. CORBETTA, G. MANTOVANI, A. LANIA, S. BORGATO, L. VICENTINI, E. BERETTA, G. FAGLIA, A. M. DI BLASIO and A. SPADA

349 Increased urinary albumin excretion in Cushing's syndrome: remission after correction of hypercortisolaemia: J.-M. KOH, J. Y. KIM, Y. E. CHUNG, J.-Y. PARK, Y. K. SHONG, S. K. HONG, G. S. KIM and K.-U. LEE

355 The application of a combined stimulation with CRH and desmopressin during bilateral inferior petrosal sinus sampling in patients with Cushing's syndrome: S. TSAGARAKIS, I. S. KASKARELIS, P. KOKKORIS, C. MALAGARI and N. THALASSINOS

363 Blood pressure and Turner syndrome: N. C. NATHWANI, R. UNWIN, C. G. D. BROOK and P. C. HINDMARSH

371 The influence of renal and cardiovascular abnormalities on blood pressure in Turner Syndrome: N. C. NATHWANI, R. UNWIN, C. G. D. BROOK and P. C. HINDMARSH

379 Relapse of hirsutism following long-term successful treatment with oestrogen–progestogen combination: W. KOKALY and T. J. MCKENNA

383 Identification of missense mutations in the SRD5A2 gene from patients with steroid 5α-reductase 2 deficiency: F. VILCHIS, J. P. MÉNDEZ, P. CANTO, E. LIEBERMAN and B. CHÁVEZ

Case report

389 Pseudohypoparathyroidism – another monogenic obesity syndrome: K. K. L. ONG, R. AMIN and D. B. DUNGER

Author's Declaration

Volume 52, Number 4, April 2000

Review

393 Is monoclonality in pituitary adenomas synonymous with neoplasia?: A. LEVY

Commentary

399 Genes, mice and the internet: is WT1 the shape of things to come?: S. G. BALL and N. A. HANLEY (see page 513)

401 How will we know if 11β-hydroxysteroid dehydrogenases are important in common diseases?: B. R. WALKER (see page 403)

Original papers

403 Lack of relationship between 11β-hydroxysteroid dehydrogenase setpoint and insulin sensitivity in the basal state and after 24 hour of insulin infusion in healthy subjects and type 2 diabetic patients: M. N. KERSTENS, S. C. RIEMENS, W. J. SLUITER, J. J. PRATT, B. G. WOLTHERS and R. P. F. DULLAART (see commentary page 401)

413 α2-adrenoceptor regulation of the hypothalamic-pituitary-adrenocortical axis in obesity: R. PASQUALI, V. VICENNATI, F. CALZONI, U. GNUDI, A. GAMBINERI, L. CERONI, P. CORTELLI, R. MENOZZI, R. SINISI and G. DEL RIO

423 The emergence of salivary cortisol circadian rhythm and its relationship to sleep activity in preterm infants: S. R. R. ANTONINI, S. M. JORGE and A. C. MOREIRA

427 Treatment of pituitary–dependent Cushing's syndrome: long-term results of unilateral adrenalectomy followed by external pituitary irradiation compared to transsphenoidal pituitary surgery: S. K. NAGESSER, A. P. VAN SETERS, J. KIEVIT, J. HERMANS, H. VAN DULKEN, H. M. J. KRANS and C. J. H. VAN DE VELDE

437 Hormone levels and tumour size response to quinagolide and cabergoline in patients with prolactin-secreting and clinically non-functioning pituitary adenomas: predictive value of pituitary scintigraphy with ^{123}I-methoxybenzamide: A. COLAO, D. FERONE, S. LASTORIA, G. CERBONE, A. DI SARNO, C. DI SOMMA, R. LUCCI and G. LOMBARDI

447 Does the age of onset of growth hormone deficiency affect cardiac performance? A radionuclide angiography study: A. COLAO, A. CUOCOLO, C. DI SOMMA, G. CERBONE, A. M. DELLA MORTE, R. PIVONELLO, E. NICOLAI, M. SALVATORE and G. LOMBARDI

457 One year growth hormone replacement therapy does not alter colonic epithelial cell proliferation in growth hormone deficient adults: J.A.M. BEENTJES, B.A.P. VAN GORKOM, W.J. SLUITER, E.G.E. DE VRIES, J.H. KLEIBEUKER and R.P.F. DULLAART

463 Analysis of the intracellular signalling domain of the human growth hormone receptor in children with idiopathic short stature: L. B. JOHNSTON, F. PASHANKAR, C. CAMACHO-HUBNER, M. O. SAVAGE AND A. J. L. CLARK

471 Thyroid suppression test with L-thyroxine and (^{99m}Tc) pertechnetate: C. D. RAMOS, D. E. ZANTUT-WITTMANN, M. A. TAMBASCIA, L. ASSUMPCAO, E.C.S.C. ETCHEBEHERE and E. E. CAMARGO

479 Analysis of the peroxisome proliferator activated receptor γ (PPARγ) gene in HAIRAN syndrome with obesity: H. GLOBERMAN, Y. ZAUBERMAN, T. MAKAROV, B. A. BEAMER, C-J. YEN, A. R. SHULDINER, C. HAREL and E. KARNIELI

487 Raised plasminogen activator inhibitor-1 (PAI-1) is not an independent risk factor in the polycystic ovary syndrome (PCOS): W. U. ATIOMO, R. FOX, J. E. CONDON, S. SHAW, J. FRIEND, A. G. PRENTICE and T. J. WILKIN

493 The negative association between serum free testosterone and leptin is dependent on insulin-like growth factor-binding protein 1 in healthy young and middle-aged men: E. M. ERFURTH and B. AHRÉN

499 The development of a sialic acid specific lectin–immunoassay for the measurement of human chorionic gonadotrophin glycoforms in serum and its application in normal and Down's syndrome pregnancies: R. A. ABUSHOUFA, J. A. TALBOT, K. BROWNBILL, B. RAFFERTY, J. W. KANE and W. R. ROBERTSON

509 Clinical features of multiple endocrine neoplasia type 1 (MEN1) phenocopy without germline MEN1 gene mutations: analysis of 20 Japanese sporadic cases with MEN1: N. HAI, N. AOKI, A. SHIMATSU, T. MORI and S. KOSUGI

Case report

519 Frasier syndrome, part of the Denys Drash continuum or simply a WT1 gene associated disorder of intersex and nephropathy?: A. KOZIELL, E. CHARMANDARI, P. C. HINDMARSH, L. REES, P. SCAMBLER and C. G. D. BROOK (see commentary page 399)

525 **Book reviews**

Author's Declaration

Volume 52, Number 5, May 2000

Commentary

529 What's best for the bones in Turner syndrome?: P. C. HINDMARSH (SEE PAGE 531)

Original papers

531 A longitudinal study on bone mineral density until adulthood in girls with Turner's syndrome participating in a growth hormone injection frequency-response trial: T. C. J. SAS, S. M. DE MUINCK KEIZER-SCHRAMA, T. STIJNEN, A. ASARFI, W. J. VAN LEEUWEN, A. VAN TEUNENBROEK, R. R. VAN RIJN, S. L. DROP and THE DUTCH ADVISORY GROUP ON GROWTH HORMONE (SEE COMMENTARY PAGE 529)

537 Pre-treatment IGF-I level is the major determinant of GH dosage in adult GH deficiency: R. D. MURRAY, S. J. HOWELL, C. A. LISSETT and S. M. SHALET

543 Increase of adhesion molecules, fibrinogen, type-1 plasminogen activator inhibitor and orosomucoid in growth hormone (GH) deficient adults and their modulation by recombinant human GH replacement: J. KVASNIČKA, J. MAREK, T. KVASNIČKA, V. WEISS, M. MARKOVÁ, J. ŠTĚPÁN and A. UMLAUFOVÁ

549 Impaired β-cell function in the presence of reduced insulin sensitivity determines glucose tolerance status in acromegalic

patients: S. KASAYAMA, M. OTSUKI, M. TAKAGI, H. SAITO, S. SUMITANI, H. KOUHARA, M. KOGA, Y. SAITOH, T. OHNISHI and N. ARITA

557 Mitochondrial DNA A3243G mutation in patients with early- or late-onset type 2 diabetes mellitus in Hong Kong Chinese: M. C. Y. NG, V. T. F. YEUNG, C. C. CHOW, J. K. Y. LI, P. R. SMITH, C. H. MIJOVIC, J. A. J. H. CRITCHLEY, A. H. BARNETT, C. S. COCKRAM and J. C. N. CHAN

565 Increased risk for endocrine autoimmunity in Italian type 2 diabetic patients with GAD65 autoantibodies: G. GAMBELUNGHE, F. FORINI, S. LAURETI, G. MURDOLO, G. TORALDO, F. SANTEUSANIO, P. BRUNETTI, C. B. SANJEEVI and A. FALORNI

575 Vitamin D receptor gene polymorphisms influence susceptibility to type 1 diabetes mellitus in the Taiwanese population: T. -J. CHANG, H.-H. LEI, J. -I. YEH, K. C. CHIU, K. -C. LEE, M. -C. CHEN, T. Y. TAI and L. -M. CHUANG

581 Oestrogen-receptor-α gene polymorphism affects response in bone mineral density to oestrogen in post-menopausal women: B. ONGPHIPHADHANAKUL, S. CHANPRASERTYOTHIN, P. PAYATIKUL, S. SAE TUNG, N. PIASEU, L. CHAILURKIT, S. CHANSIRIKARN, G. PUAVILAI and R. RAJATANAVIN

587 Spironolactone as a single agent for long-term therapy of hirsute patients: P. M. SPRITZER, K. O. LISBOA, S. MATTIELLO and F. LHULLIER

595 Cardiovascular disease in women with polycystic ovary syndrome at long-term follow-up: a retrospective cohort study: S. WILD, T. PIERPOINT, P. MCKEIGUE and H. JACOBS

601 Influence of different genotypes on 17-hydroxyprogesterone levels in patients with non-classical congenital adrenal hyperplasia due to 21-hydroxylase deficiency: T. A. S. S. BACHEGA, A. E. C. BILLERBECK, I. A. M. MARCONDES, G. MADUREIRA, I. J. P. ARNHOLD and B. B. MENDONCA

609 The impact of mild Leydig cell dysfunction following cytotoxic chemotherapy on bone mineral density (BMD) and body composition: S. J. HOWELL, J. A. RADFORD, J. E. ADAMS and S. M. SHALET

617 Oral glucose tolerance testing but not intravenous glucose administration uncovers hyper-responsiveness of hypothalamo–pituitary–adrenal axis in patients with adrenal incidentalomas: F. BEUSCHLEIN, M. BORGEMEISTER, J. SCHIRRA, B. GÖKE, M. FASSNACHT, W. ARLT, B. ALLOLIO and M. REINCKE

625 Growth hormone and prolactin are secreted more irregularly in patients with Cushing's disease: R. G. VELDMAN, M. FRÖLICH, S. M. PINCUS, J. D. VELDHUIS and F. ROELFSEMA

633 Low-dose (1 μg) adrenocorticotrophin (ACTH) stimulation as a screening test for impaired hypothalamo–pituitary–adrenal axis function: sensitivity, specificity and accuracy in comparison with the high-dose (250 μg) test: K. TORDJMAN, A. JAFFE, Y. TROSTANETSKY, Y. GREENMAN, R. LIMOR and N. STERN

641 Assessment of disease activity in Graves' ophthalmopathy by orbital ultrasonography and clinical parameters: M. N. GERDING, M. F. PRUMMEL and W. M. WIERSINGA

647 Soluble interleukin-1 receptor antagonist concentration in patients with Graves' ophthalmopathy is neither related to cigarette smoking nor predictive of subsequent response to glucocorticoids: L. BARTALENA, L. MANETTI, M. L. TANDA, E. DELL'UNTO, B. MAZZI, R. ROCCHI, G. BARBESINO, A. PINCHERA and C. MARCOCCI

653 Embolization in combination with radioiodine therapy for bone metastases from differentiated thyroid carcinoma: K. M. VAN TOL, J. M. HEW, P. L. JAGER, A. VERMEY, R. P. F. DULLAART and T. P. LINKS

Case report

661 Combined pituitary hormone deficiency and pituitary hypoplasia due to a mutation of the Pit-1 gene: H. FRISCH, C. KIM, G. HÄUSLER and R. PFÄFFLE

Author's Declaration

Volume 52, Number 6, June 2000

Review

667 Hyponatraemia: D. M. SMITH, K. MCKENNA and C. J. THOMPSON

Commentary

679 The combined pituitary function test is not indicated in the routine investigation of short stature: M. O. SAVAGE

Original papers

681 Inhibitory action on GHRH-induced GH secretion of chronic tamoxifen treatment in breast cancer: L. DE MARINIS, A. MANCINI, D. IZZI, A. BIANCHI, A. GIAMPIETRO, A. FUSCO, I. LIBERALE, S ROSSI and D. VALLE

687 Genetic immunotherapy of established tumours with adenoviral vectors transducing murine interleukin-12 (mIL12) subunits in a rat medullary thyroid carcinoma model: R. ZHANG AND L. J. DEGROOT

695 Stereotactic conformal radiotherapy for pituitary adenomas: technique and preliminary experience: R. JALALI, M. BRADA, J. R. PERKS, A. P. WARRINGTON, D. TRAISH, L. BURCHELL, H. MCNAIR, D. G. T. THOMAS, S. ROBINSON and D. G. JOHNSTON

703 Abnormal LH pulsatility in women with hyperprolactinaemic amenorrhoea normalizes after bromocriptine treatment: deconvolution-based assessment: A. SARTORIO, A. PIZZOCARO, D. LIBERATI, G. DE NICOLAO, J. D. VELDHUIS and G. FAGLIA

713 Effects of free fatty acids and acipimox, a lipolysis inhibitor, on the somatotroph responsiveness to GHRH in anorexia nervosa: L. GIANOTTI, S. FASSINO, G. A. DAGA, F. LANFRANCO, C. DE BACCO, J. RAMUNNI, E. ARVAT, M. MACCARIO and E. GHIGO

721 Effect of gonadotropin-releasing hormone (GnRH) antagonist during the LH surge in normal women and during controlled ovarian hyperstimulation: S. CHRISTIN-MAITRE, F. OLIVENNES, S. DUBOURDIEU, N. CHABBERT-BUFFET, B. CHARBONNEL, R. FRYDMAN and P. BOUCHARD

727 The combined pituitary function test in children: an evaluation of the clinical usefulness of TRH and LHRH stimulation tests: an evaluation of the clinical usefulness of TRH and LHRH stimulation tests through retrospective analysis of one hundred and twenty six cases: M. E. WESTWOOD, G. E. BUTLER, A. C. MCLELLAN and J. H. BARTH

735 The use of insulin-like growth factor 1 reference values for the diagnosis of growth hormone deficiency in prepubertal children: L. BUSSIERES, J.-C. SOUBERBIELLE, G. PINTO, L. ADAN, M. NOEL and R. BRAUNER

741 Carbohydrate metabolism during growth hormone treatment and after discontinuation of growth hormone treatment in girls with Turner syndrome treated with once or twice daily growth hormone injections: T. SAS, S. DE MUINCK KEIZER-SCHRAMA, H-J. AANSTOOT, T. STIJNEN, S. DROP and THE DUTCH ADVISORY GROUP ON GROWTH HORMONE

749 FHIT and TSG101 in thyroid tumours: aberrant transcripts reflect rare abnormal RNA processing events of uncertain pathogenetic or clinical significance: B. MCIVER, S. K. G. GREBE, L. WANG, I. D. HAY, A. YOKOMIZO, W. LIU, J. R. GOELLNER, C. S. GRANT, D. I. SMITH and N. L. EBERHARDT

759 A polymorphism of the 5′-flanking region of tumour necrosis factor α gene is associated with thyroid-associated ophthalmopathy in Japanese: S. KAMIZONO, Y. HIROMATSU, N. SEKI, T. BEDNARCZUK, H. MATSUMOTO, A. KIMURA and K. ITOH

765 Ablation of the thyroid remnant and ^{131}I dose in differentiated thyroid cancer: S. A. R. DOI and N. J. Y. WOODHOUSE

775 Oral dehydroepiandrosterone (DHEA) replacement therapy in women with Addison's Disease: G. GEBRE-MEDHIN, E. S. HUSEBYE, H. MALLMIN, L. HELSTRÖM, C. BERNE, F. A. KARLSSON and O. KÄMPE

781 Lack of menstrual cycle effects on hypothalamic–pituitary–adrenal axis to insulin-induced hypoglycaemia: T. D. LONG, V. L. ELLINGROD, R. G. KATHOL, L. E. CHRISTENSEN, D. S. RESCH and P. J. PERRY

Case report

789 Cushing's syndrome associated with a chemodectoma and a carcinoid tumour: J. M. TREMBLE, M. BUXTON-THOMAS, D. HOPKINS, P. KANE D. BAILEY and P. E. HARRIS

795 **Letters to the Editor**

801 **Erratum**

802 **Referees**

804 **Author index**

814 **Subject index**

Authors Declaration